

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044383 A1

(51) International Patent Classification⁷: **A62B 35/04**

(21) International Application Number:
PCT/GB2004/004294

(22) International Filing Date: 11 October 2004 (11.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0324495.1 21 October 2003 (21.10.2003) GB
0419225.8 28 August 2004 (28.08.2004) GB

(71) Applicant (for all designated States except US): **UNILINE SAFETY SYSTEMS LIMITED** [GB/GB]; 3 Sherwood Road, Aston Fields Industrial Estate, Bromsgrove Worcestershire B60 3DU (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BROWN, Kevin**

[GB/GB]; 72 Duckworth Grove, Padgate, Warrington WA2 0QX (GB). **STRATTON, Luke** [GB/GB]; 18 George Street, Kidderminster Worcestershire DY10 1PX (GB).

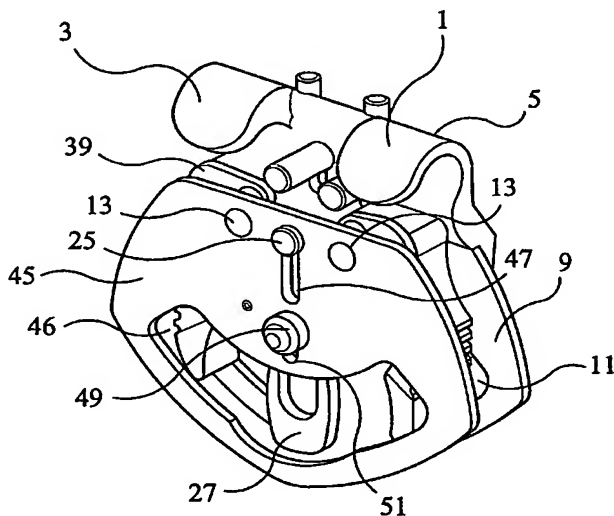
(74) Agent: **JACKSON, Derek, Charles**; The Old Yard, Lower Town, Worcester Worcestershire WR3 7RY (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **FALL ARREST DEVICE AND SYSTEM INCORPORATING THE SAME**



(57) Abstract: A fall arrest device includes a U-shaped member (3, 5) adapted to accommodate a track (7) of a fall arrest system. A cam member (15, 17; 81, 83; 87, 89), including an actuating arm (21; 85) and a cam portion (19), is pivotally mounted on the device such that the cam portion is movable towards the U-shaped member so as to lock the track between the cam portion and an internal surface of the U-shaped member in the event of a fall. Biasing means (22) urges the cam member to a position in which the cam portion is adapted to allow the track to pass between the cam portion and the internal surface of the U-shaped member. Actuating means (27; 93) is adapted, in the event of a fall, to engage with the actuating arm or the cam member and to cause the cam member to pivot against the biasing force of the biasing means such that the cam portion locks the track. Friction means (55) is adapted in use to engage with the track such that at least a predetermined minimum load is required to cause the device to move relative to the track.

WO 2005/044383 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.